

## Listing of the Claims

1. (Previously presented) A simulated slot electric motor comprising:
  - a housing,
  - a rotor,
  - a stator having,
    - a magnetic flux tube,
    - a plurality of field windings at least partially disposed in a plurality of simulated slots, and
    - a plurality of electrical connections connected to the plurality of field windings configured to connect to a motor control package,
  - wherein the plurality of field windings are at least partially retained within the inside diameter of the magnetic flux tube.
2. (Currently Amended) The simulated slot electric motor of claim 1 wherein the motor control package comprises:
  - a commutation control package connected to,
  - a power supply package, having
    - a thermally conductive housing,
  - wherein the power supply package is secured to the thermal conductive housing configured to conduct heat away from the power supply circuit.
3. (Previously presented) The simulated slot electric motor of claim 2 wherein the power supply package comprises:
  - a printed circuit board,
  - one or more transistors, and
  - a receptacle,
  - wherein the transistors are mounted to the printed circuit board in a vertical position and the transistors are secured to the thermal conductive housing, and
  - wherein the receptacle is configured to connect to the commutation control package.

4. (Previously presented) The simulated slot electric motor of claim 2 wherein the motor control circuit comprises:
  - a modular power supply package, and
  - a modular commutation control package,wherein the modular power supply circuit is configured to connect with the modular commutation circuit placing the modular power supply circuit and the modular communication control circuit in electrical communications.
5. (Previously presented) The simulated slot electric motor of claim 4 wherein the modular power supply package is configured to mate with a plurality of modular commutation control package.
6. (Previously presented) The simulated slot electric motor of claim 5 wherein the plurality of modular commutation control package comprises at least one selected from a variable speed control circuit, a fixed speed circuit, a reversing circuit, a dynamic braking circuit and a fixed variable speed circuit.
7. (Previously presented) The simulated slot electric motor of claim 4 wherein said modular commutation package is configured to mate with a plurality of modular power supply package.
8. (Previously presented) The simulated slot electric motor of claim 7 wherein the plurality of modular power supply package is at least one of the following; an AC power supply, a DC power supply, a 220 volt power supply, a 120 volt power supply and/or a 36 volt power supply.
9. (Currently Amended) The simulated slot electric motor of claim 0 1 wherein the magnetic flux tube comprises:
  - a plurality of ribbon coils, and
  - a plurality of insulation layers,wherein the ribbon coils, separated by insulation layers, are bound together forming a generally cylindrical shape.

10. (Previously presented) The simulated slot electric motor of claim 9 wherein each ribbon coil comprises  
a plurality of layers of magnetic flux conductive material
11. (Previously presented) The simulated slot electric motor of claim 10 wherein the magnetic flux conductive material comprises silicon steel.
12. (Currently Amended) The simulated slot electric motor of claim  $\theta$  1 further comprising:  
an insulation configured to electrically isolate the field windings from the magnetic flux tube.
13. (Currently Amended) The simulated slot electric motor of claim  $\theta$  1 wherein the plurality of field windings are connected in one selected from a wye and a delta configuration, and  
wherein the plurality of field windings form a generally segmented arc ring sector cylindrical shape.
14. (Previously Withdrawn) An electric motor comprising:  
a housing,  
a rotor,  
a stator having, and  
a modular motor control package positioned in the motor housing comprising:  
a modular power supply package, and  
a modular commutation control package,  
wherein the modular commutation control package is configured to plug into the modular power supply package, and
15. (Previously Withdrawn) The electric motor of claim 14 wherein the modular power supply package is interchangeable with a plurality of modular power supply package.

16. (Previously Withdrawn) The electric motor of claim 14 wherein the modular commutation control package is interchangeable with a plurality of modular commutation control package.
17. (Previously presented) A stator for an electric motor comprising:  
a magnetic flux tube,  
a plurality of field windings at least partially disposed in a simulated slot, and  
a plurality of electrical connections connected to the plurality of field windings configured to connect to a power source,  
wherein the plurality of field windings are at least partially retained within the inside diameter the magnetic flux tube.
18. (Previously presented) The stator for an electric motor of claim 17 wherein the magnetic flux tube comprises:  
a plurality of ribbon coils, and  
a plurality of insulation layers,  
wherein the ribbon coils, separated by insulation layers, are bound together forming a generally cylindrical shape.
19. (Previously presented) The stator for an electric motor of claim 17 wherein each ribbon coil comprises  
a plurality of layers of conductive material
20. (Previously presented) The stator for an electric motor of claim 17 wherein the conductive material comprises silicon steel.
21. (Previously presented) The stator for an electric motor of claim 17 further comprising:  
an insulation configured to electrically isolate the field windings from the magnetic flux tube.

22. (Previously Withdrawn) A device for making a magnetic flux tube comprising:  
a slitting means configured to slit a conductive sheet of material into a plurality of strips having a selected width,  
a cutoff means configured to cut the plurality of strips to a selected length,  
an insulation applicator configured to apply an insulation layer to the plurality of strips, and  
a mandrel configured to wrap the plurality of strips into a plurality of ribbon coils.
23. (Previously Withdrawn) The device for making a magnetic flux tube of claim 18 further comprising:  
an adjustable wrap belt configured to aid in wrapping the plurality of strips around the mandrel.
24. (Previously Withdrawn) The device for making a magnetic flux tube of claim 18 wherein the mandrel is expandable and configured to expand to wrap the plurality of strips into a plurality of coils, and configured to contract to remove the plurality of coils which are separated by a plurality of insulation layers.
25. (Previously Withdrawn) The device for making a magnetic flux tube of claim 18 wherein the insulation applicator applies a bonding means for bonding the plurality of coils and plurality of insulation layers together to form the magnetic flux tube.
26. (Previously Withdrawn) The device for making a magnetic flux tube of claim 18 further comprising:  
a taper for sealing the trailing edges of the plurality of strips to the plurality of ribbon coils.
27. (Previously Withdrawn) The device for making a magnetic flux tube of claim 18 further wherein the conductive material is steel.
28. (Previously Withdrawn) A method of making a magnetic flux tube comprising the steps of:

slitting a conductive material into a plurality of strips having a selected width,  
applying an insulation layer to at least one edge of the plurality of strips,  
wrapping the plurality strips into a plurality of coils having a generally cylindrical  
shape,  
cutting the plurality of strips to a selected length,  
bonding the trailing ends of the plurality of strips to their respective coils,  
bonding the plurality of coils together wherein the plurality of coils are separated  
from one another by an insulation layer.

29. (Previously Withdrawn) The method of making a magnetic flux tube of claim 28  
wherein slitting a conductive material comprises slitting steel.

30. (Previously Withdrawn) The method of making a magnetic flux tube of claim 28  
wherein wrapping the plurality of strips into a plurality of coils comprises wrapping the  
plurality of strips around an expandable mandrel.

31. (Previously Withdrawn) A method of making a field winding for use in an electric  
motor having simulated slots comprising:

winding a conductive material in a substantially oval shape to form a plurality of  
field windings, each field windings having a positive phase and a negative phase,  
containing the positive phase of each field winding in a simulated slot, and  
containing the negative phase of each field winding in a simulated slot,  
wherein the field windings form a segmented arc-ring sectors over and along the  
generator of a simulated winding tool.

32. (Previously Withdrawn) The method of making a field winding of claim 31 further  
comprising:

electrically connecting the plurality of field windings in one selected from a whe  
and a delta configuration.

33. (Previously Withdrawn) The method of making a field winding of claim 32 further  
comprising:

Supplying the simulated slot with a liquid crystal retainer.

34. (Previously Withdrawn) A winding tool for making field windings for a simulated slot electric motor comprising:  
a cylindrical shaft,  
a plurality of blades configured to simulate a slotted area of one selected from a stator and a rotor,  
wherein the field windings are formed around two or more of the plurality of blades.
35. (Previously Withdrawn) The winding tool for making field windings of claim 34 wherein the plurality of blades are retractable.
36. (Previously Withdrawn) The winding tool for making field windings of claim 34 further comprising:  
a feeder configured to control the feed location of the field winding and simultaneously providing a form to retain the field windings on the wining tool while the field winding is being manufactured.
37. (Previously Withdrawn) The winding tool for making field windings of claim 36 wherein the feeder comprises:  
a recess for receiving at least a portion of the winding tool.
38. (Previously Withdrawn) The winding tool for making field windings of claim 34 further comprising:  
a retention device for containing the field windings on the winding tool .
39. (Previously Withdrawn) The winding tool for making field windings of claim 38 wherein the retention device comprises:  
a plurality of arms,  
a plurality of rollers supported by the plurality of arms, and  
a plurality of belts supported on the rollers,

wherein the belts are configured to aid in retaining the field windings on the surface of the cylindrical shaft.